

Davydova, N.I.

USSR/Cosmochemistry - Geochemistry. Hydrochemistry.

D.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30434

Author : Kul'berg, L.M., Pirkes, S.B., Davydova, N.I.  
Inst : Saratov University

Title : Rapid Method for Ascertaining the Degree of Dolomitization and the Structure of Carbonate Rocks

Orig Pub : Uch. zap. Saratovsk. un-ta. 1956, 43, 135-140

Abst : A new procedure has been developed for determining in the field the degree of dolomitization of carbonate rocks. The specimens under study are calcined at 675-725° for 10 minutes and are treated with an alkaline solution of p-nitrobenzene-azo-resorcinol, or with a boiling solution of diphenylcarbazide in alcohol. With magnesites and dolomites an intensive coloration develops. A sample that has not been calcined gives with diphenylcarbazide a coloration only if it contains magnesite. A method has been worked out for determining the extent of dolomitization

Card 1/2

USSR/Cosmochemistry - Geochemistry. Hydrochemistry.

D.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 3043.

of carbonate rocks by treating polished sections, which had been heated at 400°, with 0.1% alcohol solution of  $O_2N-C_6H_4-N=N-C_6H_3CH_3-N=N-C_{10}H_5(OH)N$  (pale violet areas against an orange background).

Card 2/2

SOV/491-58-10-3/15

AUTHOR: ~~Dmitriev, V. I.~~

TITLE: On the Dependence of Dynamic Characteristics of Leading Head Waves in Thin Layers on Velocity Differentiation of Media  
(O zavisimosti dinamicheskikh kharakteristik prodol'nykh golovnykh voln, svyazannykh s tonkimi sloyami, ot skorostnoy differentsiatsii sred)

PERIODICAL: Izvestiya Akademii Nauk SSSR, seriya geofizicheskaya, 1958, Nr 10, pp 1181-1191 (USSR)

ABSTRACT: G. A. Gamburtsev has developed a theory of waves produced in a solid elastic medium by a moving source. In this work (Ref.4) theoretical seismograms of the vertical  $W(t)$  and the horizontal  $U(t)$  components of displacements were given for different velocity differentiations of the media. In the present paper this theory is applied to the case where the initial wave in a thin layer is given in the form of the Dirac function. It is shown that in this case the amplitudes of the horizontal components change only in their magnitude. The change in the vertical component with time has an oscillatory nature for all  $\delta$  (cf. Ref.4). The change in the horizontal component with time has an aperiodic nature for  $\delta < 0.56$  and an oscillatory nature for  $\delta > 0.56$ .

Card 1/2 The dependence of the relative amplitudes on the velocity

SOV/49 -58-10-3/15

On the Dependence of Dynamic Characteristics of Leading Head Waves  
in Thin Layers on Velocity Differentiation of Media

differentiation of the media is discussed. It is shown that the largest amplitudes of displacement at the instant of arrival have a maximum at the following values of  $\delta$ . The amplitude  $A_{\max}$  along the ray has a maximum for  $\delta = 0.707$ , the amplitude of the vertical component maximum at  $\delta = 0.574$  and the amplitude of the horizontal component has a maximum at  $\delta = 0.816$ . There are 5 figures, 1 table and 16 references, of which 4 are English, 1 is a Soviet translation from English, the rest are Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut fiziki Zemli (Academy of Sciences of the USSR, Institute of Physics of the Earth)

SUBMITTED: August 26, 1957.

Card 2/2

MOKHCV, P.D.; KRIVOSHEYEV, V.A.; DAVYDOVA, N.I.

Briquetting press. Mashinostroitel' no.9:11-12 S '52.  
(MIRA 15:9)  
(Hydraulic presses)

DAVYDOVA, N.I.

Theory of analytically-active groups. Uch.zap. SGU 75:109  
'62. (MIRA 17:3)

DAVYDOVA, N.I.

Problem of flatfoot. Ortop.travm. i protez. 20 no.2:11-15 F '59.

(MIRA 12:12)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. V.F. Glivenko)  
Krasnoyarskogo meditsinskogo instituta.

(FLATFOOT

(Rus))

DAVYDOVA, N.I.

Importance of X-ray examination in flatfoot. Ortop., travm. i  
protez. 21 no.8:73-74 Ag '60. (MIRA 13:11)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. V.F.Glivenko)  
Krasnoyarskogo meditsinskogo instituta.  
(FOOT—ABNORMALITIES AND DEFORMITIES)

KRIVOSHEYEV, V.A.; MOKHOV, P.D.; DAVYDOVA, N.I.

Equipment for the making of large cores. Lit. proizv. no. 2:25 F '61.  
(MIRA 14:4)

(Coremaking) (Foundries—Equipment and supplies)

DAVYDOVA, N.I.

Using the differential hodograph method in the case of vertical  
layered media. Trudy Geofiz. no.35:192-214 '56. (MIRA 10:1)  
(Seismic waves)

GAMBURTSEV, G.A. [deceased]; VEYTSMAN, P.S.; DAVYDOVA, N.I.; TULINA, Yu.V.

Plutonic seismic sounding of the Earth's crust in northern Tien  
Shan. Biul. Sov. po seism. no.3:11:23 '57. (MIRA 11:5)  
(Tien Shan—Seismic waves)

DAVYDOVA, N.I.

Dependence of dynamic characteristics of diffracted seismic waves  
on the parameters of the medium according to modeling data.  
Trudy Inst. fiz. Zem. no.30:34-56 '63. (MIRA 17:4)

DAVYDOVA, N.I.

Comparison of the dynamic characteristics of longitudinal  
diffracted and head seismic waves. Trudy Inst. fiz. Zem.  
no.30:57-67 '63. (MIRA 17:4)

L 49761-65 EPF(c)/EPF(n)/EWP(j) PC-4/Pr-4 RH  
ACCESSION NR: AR5012235 UR/0058/65/000/003/D015/D015

SOURCE: Ref. zh. Fizika, Abs. 3D101

AUTHORS: Kovner, M. A.; Kraynov, Ye. P.; Davydova, N. I.

20  
23

TITLE: Theory of vibrational and electron-vibrational spectra of some polycyclic aromatic hydrocarbons

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 1964, 114-119

TOPIC TAGS: vibrational spectrum, electron vibrational spectrum, aromatic hydrocarbon, influence function, force constant

TRANSLATION: The vibrational spectra of naphthalene and deuteronaphthalenes, anthracene, anthracene- $\alpha_{10}$ , and pyrene are interpreted on the basis of a calculation of the frequencies and forms of the vibrations, and also of the force constants and influence coefficients of these molecules; the distinguishing features of the force field of these molecules are indicated. The established system of fundamental frequencies can be used for a vibrational analysis of the luminescence spectra of naphthalene, anthracene, and pyrene.

SUB CODE: OP, OC  
Card 1/3 202 ENCL: OO

KOVNER, M.A.; DAVYDOVA, N.I.; LIGUNOVA, I.A.

Interpretation of the vibrational spectra and force constants of  
phenol and D-pnenol. Opt. i spektr. 18 no.1:152-153 Ja '65.  
(MIRA 18:4)

1. DAVYDOVA, N. I.; KORENEV, N. I.
2. USSR (600)
4. Saws
7. Using less electric power in operation of saws. Der. i lesokhim. prom. 2, No. 2, 1953.
  
9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

DAVYDOVA, N.I., inzhener

Longitudinal sawing with circular saws. Der.prom.4 no.7:7-11  
J1'55. (MLRA 8:10)

1. Belorusskiy lesotekhnicheskiy institut  
(Sawmills)

DAVYDOVA, N.I.

Determining operating conditions of circular saws in rip cutting.  
Der.prom. 6 no.7:9-13 Jl '57. (MLRA 10:8)

1.Belorusskiy lesotekhnicheskiy institut imeni S. M. Kirova.  
(Saws)

DAVYDOVA, N. I.

Davydova, N.I., Cand Tech Sci -- (diss) "Determination of the Most Favorable Procedures of the Longitudinal Sawing of Pine Wood on Round-sawing Machines and Introduction of High-Speed sawing in Enterprises of the Belorussian SSR." Minsk, 1958. 15 pp (Min of Higher Education, Belorussian Forestry Engineering Inst im S.M.Kirov), 100 Copies (KL, 18-58, 98)

DAVYDOVA, N.I.

Papers submitted for the 12th Pacific Science Congress, Honolulu, Hawaii 21 Aug-  
6 Sep 1963.

WILSON, A., G. ZVORNOV, A. A., and VINOGRADOV, S. J., Moscow State

University, Physical Faculty, Chair of Marine Physics and Terrain

Waters - "On the calculation of rate of radioactive spreading in

depth" (Section VII.B.6)

ZHURAVLEV, V. N. Institute of Zoology - "The method of spicule analysis

and possibilities of its use in paleogeographical studies of the

Pacific Ocean" (Section III.C)

ZHURAVLEV, V. N. Institute of Geology - "Distribution of spores and

pollen of terrestrial plants in bottom sediments of the Pacific"

(Section III.A)

ZHURAVLEV, V. N. Director, Institute of Oceanology - "The heat exchange

between the Arctic, where and the adjacent oceanic waters"

(Section VII.D.1)

ZHURAVLEV, V. N. Institute of Oceanology - "An example of the

cooperation of the deep currents in the northeastern Pacific" (Section

VII.D.2)

ZHURAVLEV, V. N. and ZHURAVLEV, OLEKHA, Institute of Oceanology -

The interaction between turbidity, phytoplankton and primary pro-

duction (Section III.C.4)

ZHURAVLEV, V. N. Institute of Oceanology - "On the relation between

water transparency and the character of currents in some areas of the

Pacific Ocean" (Section VII.B)

ZHURAVLEV, V. N., KARAKHAN, R. M., TROFIMOV, V. A., POGODIN, V. A.,

DANOV, R. M. and GOLDFELD, B. I., Institute of Earth Physics

SHCHET, O. N., SCHULZ, - "Structure of the marsh current in the transition

zone from the northwestern part of the Pacific to the Asiatic continent"

(Section VII.C.2)

ZHURAVLEV, V. N., POGODIN, R. M. and SHCHET, O. N., Institute of

Earth Physics (Institute O. N. Schulz) - "Specific features of the sedimentary

layer in the Okhotsk Sea and in the adjacent parts of the Pacific"

(Section VII.C.2)

ZHURAVLEV, V. N., SHCHET, O. N., TROFIMOV, V. A., POGODIN, V. A., POGODIN,

SCHULZ, O. N. and KARAKHAN, R. M., Institute of Oceanology - "On the

relation between sedimentation and bottom topography in the northwestern

part of the Pacific Ocean" (Section VII.C.)

ZHURAVLEV, V. N., Institute of Geology - "Two tectonic map of the Pacific

VI.7) Ocean and the circum-Pacific mobile belt (scale 1:10,000,000)" (Section

VII.C.)

ZHURAVLEV, V. N. and SAVILOVICH, V. F., The Siberian Department of

the Academy of Sciences USSR - "On the results of investigations of

tides in the USSR" (Section VII.C.)

ZHURAVLEV, V. N. Institute of Oceanology - "Hydrological data involved

with oceanic dredges in the Pacific and their problems connected with

prospect research" (Section VII.B)

ZHURAVLEV, V. N. Institute of Technology - "Once more on the Alm problem"

(Section II.B)

ZHURAVLEV, V. N. Institute of Oceanology - "The composition of organic sus-

pended material in the Pacific in connection with the problems of sedi-

mentation" (Section VII.C.1)

ZHURAVLEV, V. N. Institute of Oceanology - "Bottom sediments in the

Antarctic" (Section VII.B.1)

ZHURAVLEV, V. N. Institute of Oceanology - "Volcanic activity and

climatologic fronts in the northern part of the Pacific Ocean"

(Section VII.A)

ZHURAVLEV, T. G., All-Union Scientific Research Institute of Marine

Physics and Geophysical Prospecting - "Some results of lithological investi-

gations in the Gulf of Alaska" (Section III.C)

ZHURAVLEV, V. A., Novosibirsk University, Physical Faculty, Chair of

Earth Crust - "Geophysical data and the problem of the origin of the

Pacific Ocean" (Section VII.C.2)

ZHURAVLEV, V. S. Institute of Oceanology - "The specific features of

beach formation in tidal seas" (Section VII.C.1)

ZHURAVLEV, O. N. Institute of Oceanology - "Qualitative-quantitative

distinction of the thermal, fauna and flora in the northwestern part

of the Pacific" (Section VII.C)

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MOKHOV, P.D.; DAVYDOVA, N.I.; KAPLENKOV, I.F.

Modernization of the ShD-12 tenoner. Der.prom. 9 no.8:23 Ag '60.  
(MIRA 13:8)  
(Woodworking machinery)

DAVYDOVA, N. I.

Cand Phys-Math Sci - (diss) "Study of dynamic characteristics of lengthwise main and diffracted seismic waves." Moscow, 1961. 10 pp; (Academy of Sciences USSR, Inst of Earth Physics imeni O. Yu. Shmidt); 125 copies; price not given; (KL, 5-61 sup, 172)

YEFIMOV, I.V.; DOL'BERG, Z.A.; DAVYDOVA, N.I.

Automatic ten-position merry-go-round unit for the manufacture of  
model sections. Avt. prom. 27 no. 5:47 My '61. (MIRA 14:5)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut  
avtomobil'noy promyshlennosti.  
(Metalworking machinery)

DAVYDOVA, N.I.

Model studies of the relationship between the dynamic characteristics of longitudinal refracted waves and the thickness of the refracting medium. Izv. AN SSSR. Ser. geofiz. no.1:11-22 Ja '62.  
(MIRA 15:2)

1. AN SSSR, Institut fiziki Zemli.  
(Seismic waves)

ACC-NR: AT6034504

SOURCE CODE: UR/0000/66/000/000/0043/0056

AUTHOR: Davydova, N. I.; Krasnopevtseva, G. V.; Manilov, S. A.; Levi, V. A.; Lobastova, L. A.; Shekinskiy, E. M.; Tvaltvadze, G. K.

ORG: none

TITLE: Results of deep seismic sounding in the Caucasus

SOURCE: AN SSSR. Otdeleniye nauk o Zemle. Nauchnyy sovet po kompleksnym issledovaniyam zemnoy kory i verkhney mantii. Glubinnoye stroyeniye Kavkaza (Abyssal structure of the Caucasus). Moscow, Izd-vo Nauka, 1966, 43-56

TOPIC TAGS: Mohorovicic discontinuity, earth crust, deep seismic sounding, granitic layer, basaltic layer, seismic velocity, SEISMIC PROSPECTING / Caucasus

ABSTRACT: The results are summarized of deep seismic sounding conducted in 1960 to 1962 along a 300-km submeridional profile between Stepnoye and Bakuriani and a 700-km sublatitudinal profile extending along the axial part of the Transcaucasian intermountain region between the Black and Caspian Seas. Continuous, piece wise continuous and point profiling methods were used. The analysis of data shows that the Earth's crust, 32-km thick in the region of El'iehotovo, increases to 38—40 km in the area of Stepnoy-Nizhniy Kurp and to 42—46 km in the southern part of the profile. The boundary velocity along the Mohorovicic discontinuity determined in the area of Nabakhtevi is 8.4 km/sec. The depth to the top of the consolidated crust with a boundary velocity of 6 km/sec varies from 7 km in the Zaterechnaya

Card 1/2

DAVYDOVA, N. I.

Theory of analytically active groups. L. M. Kulberg, A. A. Ponomaryev, and N. I. Davydova (State Univ., Saratov). Zhur. Anal. Khim. 9, 85-96 (1954).—Analytically active groups are defined as groups of atoms which do not affect the mechanism of the reaction essentially but influence the nature of the reaction product and thereby affect the sensitivity of the reaction. Groups of atoms which determine the mechanism of the reaction are referred to as analytically functional. In color tests the polarity of the reagent and product affects the intensity of the color; the latter increasing with increased polarity. Thus, an auxochrome is an analytically active group. Since a metal is usually an auxochrome, the introduction of another auxochrome of suitable sign into the reagent mol. should affect the sensitivity of the reaction. This was tested on 17 derivs. of rhodanine: 5-benzylidenerhodanine; 5-(*p*-diethylamino, 5-(*p*-dimethylamino, 5-(*p*-, 5-(*m*-, and 5-(*p*-hydroxybenzylidene)rhodanine; 5-(2-hydroxynaphthylmethylene)rhodanine; 5-(*p*-methoxybenzylidene)rhodanine; 5-furylidenerhodanine; 5-[bis(*p*-dimethylaminophenyl)ethoxy]rhodanine; 5-[bis(*p*-dimethylaminophenyl)vinylidene]rhodanine; 5-pyrrolylmethylenerhodanine, m. 228-30°; 5-[3-(2-furyl)allylidene]rhodanine, m. 205°; 5-[5-(2-furyl)-2,4-pentadienylidene]rhodanine, m. 200° with decompr.; 5-cyclopentylidenerhodanine, m. 193°; 5-cinnamylidenerhodanine, m. 218-19°; and 5-(*p*-isopropylbenzylidene)rhodanine. These 17 compds. were tested with  $\text{Ag}^+$ ,  $\text{Pd}^{++}$ ,  $\text{Au}^{2+}$ ,  $\text{Cu}^+$ ,  $\text{Hg}^+$ ,  $\text{Hg}^{++}$ ,  $\text{Pt}^{4+}$ , and  $\text{Os}^{4+}$ . In each the sensitivity of the reagent increased with increasing dipole moment of the substituting group. The sensitivity increased also with the length of the chain. However, an increase in the number of vinylene groups also intensifies the color of the reagent and, therefore, the sensitivity of the reagent may decline somewhat because of masking. The position of the substituted group in the benzene ring depended on the sign of the moment. An addnl. auxochrome increased the intensity of the reagent's color and because it decreased its sensitivity. The more basic the ring

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connected with rhodanine the greater is the sensitivity of the reagent. Of the compds. studied the most sensitive was one contg. the pyrrole ring. Derivs. of benzene, pentacyclomethylene, and furan differed slightly in their sensitivity. Analysis of the behavior of  $\text{Pd}$ ,  $\text{Au}$ ,  $\text{Cu}$ ,  $\text{Ag}$ , and  $\text{Hg}^{++}$  ( $\text{Os}$ ,  $\text{Pt}$ , and  $\text{Hg}^+$  are not included in this analysis because the reaction mechanism for the  $\text{Os}$  and  $\text{Pt}$  is not clear, and because of the nature of the polarizing interaction of  $\text{Hg}^+$ ) shows that the sensitivity of similar reagents changes with polarity. M. Hoseh

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DAVYDOV, N.I.

✓ 1223 Colorimetric determination of copper by means of ethanolamine. I.P. Kvitko and N.I. Davydova. Uch. Zap. Sverdlovsk. Univ. 103 (1958) 21.

14.152 - Ethanolamine gives with Cu<sup>2+</sup> a blue solution, the colour of which remains const. for 6 to 7 hr. and obeys Beer's law over the concn. range 500 to 540  $\mu$ g of Cu per ml. With 2*N* ethanolamine, 15.5  $\mu$ g of Cu can be detected in 1 ml of solution (dilution 1 in 50,000); it can be determined by means of a series of standards or by colorimetric titration. To determine Cu in lead-antimony alloys, 3 g are dissolved in 30 ml of dil. HNO<sub>3</sub> (1 / 3), 3 to 4 ml of dil. H<sub>2</sub>SO<sub>4</sub> (1 / 1) are added, and the precipitate is filtered off after 30 min. and washed with cold 1*N* aqueous H<sub>2</sub>SO<sub>4</sub>. The filtrate is evaporated just to dryness and the residue is dissolved in water. At the same time a comparison solution is prepared from dil. H<sub>2</sub>SO<sub>4</sub>. To each solution 5 ml of 2*N* ethanolamine are added and the Cu in the sample is determined by colorimetric titration. The method is preferred to the pyridine-thiocyanate method.

G. S. SMITH

Effect of the nature of analytically active groups on the sensitivity of analytical reactions. I. M. Kulinberg and N. I. Davydov (N. G. Chernyshevskii State Univ., Saratov). Zh. Anal. Khim. S.S.R. 95, 551-7 (1954). -- Generally the sensitivity of org. color tests depends directly on the dipole moment of the reagent. Thus the mol. quantities of Ag and Pd(II) that can be detected by benzylidene-rhodanine are 2 and 0.1  $\mu$ . With the following substituents in the para position of benzylidene-rhodanine the respective min. quantities are OMe, 1.0 and 0.1; OH, 0.1 and 0.05; Me<sub>2</sub>N 0.02 and 0.02; Et<sub>2</sub>N 0.002 and 0.002. In general, a 2-10 fold increase of sensitivity is attained by replacement of many of the common org. reagents contg. Me<sub>2</sub>N groups by their analogs contg. Et<sub>2</sub>N groups; this includes  $\beta$ -alkylaminoazobenzencarboxylic acid,  $\beta$ -alkylaminoethylidene-rhodanine, ethyl violet, nitrosodethylbenzidine,  $\beta$ -alkylamino-phenylfluorone, bright green leuco base (instead of malachite green), Et<sub>2</sub>NPh, and  $\beta$ -alkylamino-phenylenediamine.

G. M. Kosolapoff

DAVYDOVA, N.I.; ZHIGUNOVA, I.A.; IGNAT'YEVA, L.A.; KOVNER, M.A.

Calculation and interpretation of the spectra of nonplanar vibrations in m-cresol, n-cresol, o-cresol and their deuteriosubstituted. Opt. i spektr. 18 no.6:1077-1079 Je '65.  
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KUR'YANOVA, Ye.N.; DAVYDOVA, N.K.

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Effect of dietotherapy on the microflora of the intestines and the distribution of enteropathogenic serotypes of Escherichia coli. Vop. okh. mat. i det. 7 no.3:9-14 Mr '62. (MIRA 15:5)

1. Iz kafedry fakul'tetskoy pediatrii (zav. kafedroy - deystvitel'nyy chlen AMN SSSR zasluzhennyy deyatel' nauki prof. M.S. Maslov [deceased]) i kafedry mikrobiologii (zav. kafedroy - prof. V.M. Berman) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. - dotsent Ye.P. Semenova).  
(INTESTINES--MICROBIOLOGY) (DIET IN DISEASE)  
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(INTUSSUSCEPTION, etiology & pathogenesis

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(LIPOMA, case reports

cecum, causing intussusception (Rus))

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DAVYDOVA, N.S.

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Interrelationship of algae and micro-organisms. Report No. 2:  
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1. Rekomendovana kafedroy gidrobiologii Moskovskogo gosudarstven-  
nogo universiteta im. Lomonosova.  
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DAVYDOVA, N.V.; POSPELOVA, V.V.; TELITCHENKO, M.M.

Interrelations between algae and micro-organisms. Report No. 3:  
The effect of Chlorella vulgaris and Scenedesmus obliquus algae  
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1. Iz Biologo-pochvennogo fakul'teta Moskovskogo ordena Lenina  
i ordena Trudovogo Krasnogo Znameni Gosudarstvennogo universiteta  
imeni Lomonosova. Predstavlena deystvitel'nym chlenom AMN SSSR  
N.N.Zhukovym-Verezhnikovym.

(ALGAE)

(SALMONELLA)

(BACTERIOPHAGE)

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1. Moskovskiy tekstil'nyy institut.

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1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

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OF Reel # 98  
DAVYDOVA, N.G  
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